Technische Universität Dresden

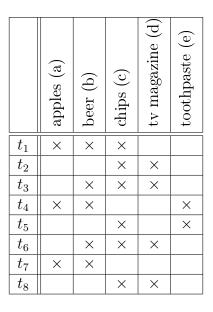
Prof. Dr. Sebastian Rudolph

Formal Concept Analysis Exercise Sheet 8, Winter Semester 2014/15

Exercise 1 (association rules)

We regard the context of transactions of a supermarket. Determine

- (a) the support and the confidence for the association rules
 - {tv magazine} \rightarrow {beer},
 - $\{\text{chips}\} \rightarrow \{\text{tv magazine, beer}\}\$ and
 - {tv magazine, beer} \rightarrow {chips}
- (b) as well as at least two further association rules with a minimal support of 25% and a minimal confidence of 66%.



Exercise 2 (computing the stem base with NEXT CLOSURE)

Determine the stem base for this context using the NEXT CLOSURE algorithm. Use the following table as help:

	Mobil (1)	Telefon (2)	Fax (3)	Fax m. NAdapter (4)
Sinus 44 (a)		×		
Nokia 6110 (b)	×	×		
T-Fax 301 (c)			×	×
T-Fax 360 PC (d)			X	

A	i	A+i	$\mathcal{L}^{\bullet}(A+i)$	$A <_i \mathcal{L}^{\bullet}(A+i)?$	$(\mathcal{L}^{\bullet}(A+i))''$	L	intents
		1	1		1		